

Applicant: NAHAR, Vijay et al.
Serial No.: To be assigned
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Amendments to the Claims:

CLAIMS

1. (Currently Amended) A dual band antenna device comprising:
 - a dielectric substrate ~~having comprising~~ opposed first and second surfaces;[[,]]
 - a groundplane disposed on the second surface;[[,]]
 - a microstrip transmission line disposed on the first surface;[[,]]
 - a dielectric pellet mounted on the first surface on the microstrip transmission line;[[,]] and
 - a bifurcated planar inverted-L antenna (PILA) component mounted on the first surface, wherein the PILA component is electrically connected to the groundplane and having comprises first and second arms which extend over and contact a surface of the dielectric pellet, wherein the first arm ~~contacting~~ contacts a different area of the surface of the dielectric pellet than the second arm, ~~the PILA also being electrically connected to the groundplane.~~
2. (Currently Amended) ~~The A-device as claimed in of~~ claim 1, wherein the dielectric pellet ~~is made of~~ comprises a high permittivity ceramics material.
3. (Currently Amended) ~~The A-device as claimed in of~~ claim 1 ~~or~~ 2, wherein the dielectric pellet ~~is comprises~~ an elongate structure with a generally flat exposed surface facing away from the first surface of the dielectric substrate.
4. (Currently Amended) ~~The A-device as claimed in of~~ claim 3, wherein the dielectric pellet ~~is formed as comprises~~ a bridge structure with comprising first and second feet that contact the microstrip transmission line.
5. (Currently Amended) ~~The A-device as claimed in of~~ claim 3 ~~or~~ 4, wherein the bifurcated PILA is ~~arranged substantially disposed~~ in line with the elongate dielectric pellet, and wherein the first arm of the PILA extends across and contacts substantially a full length of the exposed surface of the dielectric pellet, while the second arm of the PILA is shorter than the first arm and contacts a smaller part of the exposed surface of the dielectric pellet.
6. (Currently Amended) ~~The A-device as claimed in any preceding claim of~~ claim 1, configured for operation in a first frequency band of 2.4 to 2.5GHz and a second frequency band of 4.9 to 5.9GHz.
7. (Currently Amended) A dual band antenna device comprising:
 - a dielectric substrate ~~having comprising~~ opposed first and second surfaces;[[,]]

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a groundplane disposed on the second surface;[[,]]

a bifurcated planar inverted-L antenna (PILA) component mounted on the first surface and electrically connected to the groundplane, wherein the PILA component is electrically connected to the groundplane and having-comprises first and second electrically connected arms;[[,]] and

a dielectric pellet having-comprising a surface connected to the first and second arms, wherein the dielectric substrate includes an aperture that is disposed beneath the dielectric pellet, wherein the pellet is connected to a coaxial feed line, and wherein the first arm of the PILA component contacts a different area of the surface of the dielectric pellet than the second arm, ~~the PILA also being electrically connected to the groundplane.~~

8. (Cancelled)